



INCO TRIANGLE

VOLUME 4

COPPER CLIFF, ONTARIO, JANUARY, 1943

NUMBER 10



A Merry Christmas to All our Readers!



Published for all employees of The International Nickel Company of Canada, Limited.
Don M. Duubar, Editor

EDITORIAL OFFICE COPPER CLIFF, ONT.

VOLUME 4 JANUARY, 1945 NUMBER 10

For a Richer Christmas

As this issue of Triangle is being hurried to press to meet an advanced deadline so it will be in the hands of our readers before Christmas, the Yuletide spirit is already in evidence everywhere.

The other night we dropped into the Employees Club in Sudbury and found a scene typical of all INCO centres at this season. A group of people were busy decorating Christmas trees in preparation for the children's parties which will be held in the Club. Among the workers were Margie Pawson, Mildred Nelson, Mrs. Kerley, Sheila Keegan, Lois Smith, Bert Meredith, Nelson Thibault, Supt. A. E. O'Brien, Al Northwood, and Eldred Dickie, all of Froid. Mr. and Mrs. G. S. Jarrett and Alex Godfrey of Copper Cliff, and Vern Tupling. Matching their efforts are eager volunteers in the other Employees Clubs, everyone happy in the knowledge that the kiddies of their communities will get the full thrill of Christmas.

A busy week lay ahead of Santa Claus. On Dec. 16 he was slated to appear at the Froid Athletic Association party at the Sudbury Club, at Copper Cliff A.A.'s party in the Community Hall, and at Garson's event in the evening. Dec. 17 will find him at the Refinery party, Dec. 18 at Copper Cliff's Christmas program in Sudbury, Dec. 20 at Creighton Employees Club, and Dec. 23 in his final appearances at Froid-Stobie Pit's party in Sudbury and also at Levack Employees Club.

These joyous preparations for the greatest festival of the year, and also the parade of social functions which go with the Yuletide season, all serve to accentuate the security and comfort of life within the INCO family. It is hard to escape a sense of satisfaction at the broad program of special benefits which protect our welfare and promote our happiness. Thinking of these things leads inevitably to a comparison with the lives of others, and prompts the suggestion that the best Christmas present you can give yourself is to renew your efforts in victory savings, blood donations, war work, and other such avenues of service through which you can make your personal contribution to the hastening of Peace on Earth.

If you do this you will give yourself a richer and a better Christmas. We hope you have one.

•Many brilliant ideas have been lost to the world because the thinker did not have the skill, the technique or the desire to give them physical existence.
—C. F. Kierulff

•Property is the fruit of labor. Let not him who is houseless pull down the house of another, but let him labor diligently to build one for himself.
—Abraham Lincoln

Merry Christmas!



THE privilege of personally greeting every employee is unfortunately a physical impossibility in a Company the size of ours, and so it is with pleasure that I accept the invitation of the Triangle to express the Compliments of the Season to every member of the INCO family.

These days we are all deeply concerned with keeping alive the true spirit of the traditions upon which the freedom and security of our nation have been built, so that the dearly bought Peace which follows Victory may have a sound and enduring base. One of our greatest traditions is Christmas, with its eternal message of Peace on Earth, Good Will toward Men, and I sincerely hope that its blessing will bring comfort and happiness to you and yours, and to your home.

L. Beattie

About Editors And "We"

And now we rise in defence of our professional dignity which, to put it mildly, is on the spot.

Some callous fellow has been poking his nose into the dead languages and bobs up with the claim that the word "editor" comes from the Latin "edii", meaning to give or put out, and "taurus" (in Spanish it's "toro" meaning the bull).

We wish to issue a categorical denial. This derivation, we claim with the greatest possible emphasis, is false, irrelevant, and beside the point. The word "editor", according to the way we see it, comes from ancient Mongolian "eddi", meaning "greatly overworked and underpaid", and "torroh", meaning "person of extremely high intellect".

While we're on the subject, we were reading the other day about the origin of the editorial "we". It seems that in the prehistoric days when editors carved their papers on stone, a certain editor bawled out one of the citizens for not paying his taxes. Armed with a big, knotty war club, the fellow came and hammered on the lintel of the editor's cave, peered into the darkness, and yelled "Come out of there, you lily-livered so and so!"

The editor, doing some peering in return and seeing who it was, yelled back, "All right, you ditto, WE'll be there in a minute!"

As a result of this characteristic bit of quick thinking, the irate subscriber, who was not prepared to do battle with a whole gang, hurriedly fled the place and soon forgot the incident. Not so the editor. Fortified by his success he continued to think of himself in the plural until, like many present-day editors, he plucked up so much courage that he wasn't scared of anybody—almost.

THE FRONT PAGE PICTURE

Thurston Blakey, better known as Rusty to hundreds of friends, made the dramatic picture which appears on Triangle's front cover this issue. Widely known pilot for Austin Airways, Rusty has made his camera hobby produce some of the finest photographs we've seen of the beauty of Northern Ontario. This particular winter scene was shot on Moose Lake, near Wanapitae.

BACK ON HIS OLD JOB

Having received his discharge from the Canadian Army, George Sargent is back on his old job in Copper Cliff Smelter. His brother Frank, another ex-INCOite who worked in the reverb department, is still in the service and is overseas.



**WHEN YOU BOIL
IT DOWN IT JUST
MEANS
BEING CAREFUL**



STORY OF YOUR PAY-CHECK—6

Final Chapter Most Important

Sixth and final chapter in the story of your pay-check describes the most important phase of all because this is where 14,000 INCO people step into the picture to reap the reward of their work.

Up to this point we've talked about the passion of the Tabulating Department for accuracy in preparing the payroll, of the marvellous mechanical devices which are employed to produce the checks swiftly and efficiently, and of the way in which the Deduction Department saves the average employee from going prematurely grey by doing his private book-keeping for him. It's a wonderful system and we hope that in these articles we have been able to convey some idea of the big job which is being done to get those harbingers of happiness into the hands of the people who've earned them, on time every week of the year.

We're not going to go into any description of what happens to your pay-check after you get it, for the simple reason that we can never quite figure out what happens to our own, much less anybody else's. The butcher, the baker, the candlestick maker all get their due, some goes into the old sock for a rainy day or the realization of a long-cherished dream, and some finds its way to certain other places, all of which fit into the pattern of a full and active life as we of this day and age are wont to live it.

Take Harold Kirk, for example. Harold is a skimmer on No. 1 Holding Converter in the Orford Department at Copper Cliff. He was born on a farm near Tamworth, Ont., and came to Sudbury to sign up with INCO in the spring of 1940. In 1944 Harold and his fellow employees in Canada will collect a total of more than \$27,000,000 in wages. To get this money they will cash more than three quarters of a million checks issued to them by the Company paymasters.

In Picture No. 1 Harold Kirk is seen cashing his pay-check at the bank. He has received

(Continued on Page 9)



The Young Dead Soldiers Do Not Speak NEVERTHELESS:

They are dead in the trenches who have not heard them!

They have a silence that speaks for them at night and when the dusk comes . . .

They say, We were young. We have died. Remember us.

They say, We have done what we could but could it is doubtful if we did more.

They say, We have given our lives but could it be founded on any one knows what you have done.

They say, Whether our lives and our deaths were for peace and a new hope, or for nothing, we cannot say, it is you who must say this.

They say, We have you our deaths. Give them their meaning. Give them an end to the war and a true peace. Give them a victory that ends the war and a peace after war. Give them their meaning.

We were young, they say. We have died. Remember us.

(Continued)

ROLL OF HONOUR

THESE HAVE DIED TO PRESERVE
OUR WAY OF LIFE

AUBREY A. RODGER
Frank Moss
CLAUDE E. MOORE
Frank Moss, Montreal
CHAS. M. COMPTON
Frank Moss, Montreal
DORIS L. C. JEFFER
Frank Moss, Montreal
JOHN D. DOUGLAS
Frank Moss
THOMAS D. LITTLE
Frank Moss
LEO E. BOWELL-SPWALL
Frank Moss
HUBERT R. RANCE
Frank Moss
WALSH BROTHSON
Frank Moss, Montreal
DOUGLAS A. SPAY
Frank Moss
GEORGE N. SIMONE
Frank Moss
CHARLES E. BROWN
Frank Moss
CLARENCE N. KEE
Frank Moss, Montreal
LESLIE W. SCOTT-BELL
Frank Moss, Montreal
LEONARD G. GRAHAM
Frank Moss
LAWRENCE J. MURKIN
Frank Moss
WILLIAM T. LANE
Frank Moss, Montreal
LESLIE BUTLER
Frank Moss
THOMAS E. HENDSON
Frank Moss, Montreal
BEATTY CAMPBELL
Frank Moss
WILLIAM J. JORDAN
Frank Moss, Montreal
FRANK E. ANDERSON
Frank Moss
JOSEPH H. KELLY
Frank Moss, Montreal
GARHAM CHARBY
Frank Moss, Montreal
JAMES ANDERSON
Frank Moss
STURGEON (OSKI)
Frank Moss, Montreal

RUSSEL DAVID MOTHERS
Frank Moss
JOSUEP P. SULLIVAN
Frank Moss
FRED BUCK
Frank Moss, Montreal
ALVA BOY
Frank Moss
JOHN MARSH
Frank Moss
NANNIE J. DEBORNE
Frank Moss, Montreal
MURDER BRUNNELL
Frank Moss
MICHAEL OWENS
Frank Moss, Montreal
HENRY GIBSON
Frank Moss, Montreal
ABERLE A. BRANLIARD
Frank Moss, Montreal
FRED GREEN
Frank Moss
THOMAS R. JONESTON
Frank Moss
WILLIAM GORDON
Frank Moss
ALVA STALKER
Frank Moss
F. CAMPBELL BRIDGEMAN
Frank Moss
PHILIP SCULLER
Frank Moss
JOHN J. TOWN
Frank Moss, Montreal
FREDERICK KONIG
Frank Moss
MORLEY B. LOYSE
Frank Moss
HARRY MARK
Frank Moss, Montreal
DAN BERNARD
Frank Moss, Montreal
CLARENCE J. BAIN
Frank Moss, Montreal
JOHN STEPHEN KEETS
Frank Moss, Montreal
CLARENCE J. KEATING
Frank Moss
HARRY S. McINTYRE
Frank Moss
GEORGE D. TERN
Frank Moss, Montreal
DAVID SCOTT
Frank Moss
SAM BROOK ANDERSON
Frank Moss
WILLIAM A. McMEHILL
Frank Moss, Montreal
GERALD ANDERSON
Frank Moss
ARTHUR BROWN
Frank Moss
WALTER A. HENLEY
Frank Moss
ELSON MENZIES
Frank Moss
FRANK VICE
Frank Moss
VICTOR RANGER
Frank Moss
LEN ROGERS
Frank Moss
ALBERT BRANKLEY
Frank Moss
GEORGE A. MITCHELL
Frank Moss
C. A. McKENNAN
Frank Moss
PATRICK CRAWFORD
Frank Moss
DONALD A. AUGUSTINE
Frank Moss
JAMES SMITH
Frank Moss
E. E. SOUTHER
Frank Moss
I. A. MYER
Frank Moss
C. J. FISHER
Frank Moss
HAROLD OWEN
Frank Moss
LLOYD KIRKING
Frank Moss
FAME JOURNEY
Frank Moss
ROBERT L. ANDREWS
Frank Moss
ARCHIE F. JONES
Frank Moss
RONALD E. FOX
Frank Moss
RICHARD L. FAUST
Frank Moss
EDWARDS E. KENNEDY
Frank Moss
ED BERNARD WALKER
Frank Moss

ARMAND PRITER
Frank Moss
KENNETH A. GREEN
Frank Moss
LEONARD SMITH
Frank Moss
MACHUE WILSON
Frank Moss
CLIFFORD DONAHUE
Frank Moss
THOMAS EASTON
Frank Moss
WALTER D. CAMPER
Frank Moss
JOSEPH P. HALL
Frank Moss
LESLIE SULLIVAN
Frank Moss
HARRY FARR
Frank Moss
WILLIAM MURPHY
Frank Moss
ERNEST LUDWIG
Frank Moss
EDD WALKER
Frank Moss
PIERRE DENYSEUX
Frank Moss
WILLIAM DENYSEUX
Frank Moss
RUGER D. FAWSON
Frank Moss
LEONARD GIBSON
Frank Moss
CARL WALTER STROM
Frank Moss
ANDREW YERK
Frank Moss
RONALD P. JOHNSON
Frank Moss
ALFRED J. GALLOWAY
Frank Moss
LEONARD M. SAVILL
Frank Moss
ALFRED BALCOMBE
Frank Moss
VICTOR A. MULLIN
Frank Moss

Will it ever be found alive forward in The Triangle names listed from the list of 1910-1914 included who have made the Supreme Sacrifice in the present war.

Must Get Most From Resources

"We in Canada cannot have at a moment's notice a natural resource, declared A. A. Mackay, of Montreal, president of the Canadian Institute Mining and Metallurgy, in Sudbury on December 7.

"In future our exploitation must be more scientific, more complete, more systematic," he continued as a prelude to announcement of a new technical association dedicated to such objectives. It is proposed, said Mr. Mackay, to have what may be known as the "Council on Council" of Engineers and Scientists, a technical and voluntary organization to represent our 19 or 20 technical societies in Canada. He estimated the group would represent a membership of between 20,000 and 25,000 persons.

He thought in addition to more scientific prospecting that engineering would also play a greater role in all phases of mining and metallurgy in the future. Another post-war development would be more scientific marketing methods, concluded Mr. Mackay, and we will likely have to broaden our own training base in Canada in order to develop a greater share of our production.

The executive lineup of the local C.I.M.M. branch is now as follows:

Officers serving one year term to serve:

Chairman, A. B. Yates; Vice-Chairman, E. T. Gaudin; Secretary, D. C. McKeehan; Treasurer, J. L. Lyles; Librarian, R. Oliver; Local Open Day, J. Munroe.

Officers elected at scheduled Nov. 15 and 1914:

Secretary, J. C. Pichard; President, E. K. Jones; Treasurer, D. C. McKeehan; Local Open Day, A. H. Gaudin; Captain, R. Gaudin; C. New; Chairman, Frank McArthur; Captain, Arthur Munroe; Frank P. W. Gaudin.



MISS PIERCE'S SHIFT AND GENERAL OFFICE GIRLS HOLD DINNER PARTIES

Another of those enjoyable "let's get together off the job" parties was held at the Nickel Range Hotel by the girls of Miss Pierce's shift in Copper Cliff Smelter. Seen in the top photograph: back row, left to right, D. Beland, N. Young, H. McLaughlin, T. Lafortune, R. Lessard, H. Pierce (matron), N. Fawcett, M. Currie, V. Pakkala, E. Walker, J. Cuomo, O. O'Brien, A. Lajeunesse, A. Bennett, L. Leger, E. Tremblay, P. McDonald, J. Rousselle, E. Smith, J. Seguin; centre row, S. Cuomo, L. David, P. Carter, M. Kenny, M. Mousseau, E. Perreault, I. Skrypek, L. Koski, M. Galloway, I. Maki, M. Johnson, L. Wilson, M. Jaworski; front row, M. Quenville, M. Streich, E. Muzychuk, Y. Langlois, L. Kovanen, J. Prudhomme, R. Bertrand, I. Fortier, J. Peacock, P. Hartman.

The girls from Copper Cliff General office also held a dinner party recently at the Copper Cliff Club in honor of Mrs. "Mac" McNeil (nee Olive Lee) and Mrs. Gordon Clement (nee Betty Major)

whose marriages took place in November. Presentations were made of a coffee table to Mrs. McNeil by Edna Thomas and an entree dish to Mrs. Clement by Grace Stevens.

In the second picture are, left to right: back row, Dorothy McCarthy, Mary Shamley, Betty Jenkins, Cora Sykes, Ruth Butchart, Catherine Ratchford, Elsie Oliver, Frances Adams, Louise Schofield, Nora Bargnesi, Dolina de Soto, Robina Ballantyne, Margaret Elves, Jean Bell, Polly Morrow, Mary Milks, Lorna Mutz, Rosemary Ovens, Dorothy Acheson, Dorothy Hawke; second row, Mary Whalen, Jenny Martel, Josephine Travaglino, Dina Minardi, Evelyn Zinkie, Mary Wier, Naomi Perras, Marjorie James, Ruth Carlson, Sheila Granary; third row, Marion Stedman, Barbara Germa, Edna Thomas, Olive McNeil, Betty Clement, Grace Stevens, Dorothy Dopsom, Betty Spencer; front row, Kay Thomas, Ruth Robert, Gloria Ferguson, Audrey Thomas, Phyllis Winters, Irene Maibe, Evelyn Gilpin, Anne Johnson.

WARNS OF DANGERS IN COMBUSTIBLE INSULATION

INCO Fire Inspector Bill Humphries issues a word of warning regarding the use for insulation of shavings, sawdust, or other material that will burn.

Hydro rules in this connection are as follows: "If the hollow space in walls, floors, and roof spaces of buildings are to be filled with thermal (heat) insulation, except as provided below,

only approved non-coerusive, incombustible non-conducting materials shall be used, and these shall be applied in a manner not likely to place any strain upon the conductors or raceways or on their supports.

"If such spaces be filled with combustible thermal insulation, wiring shall be in rigid conduit or inflexible conduit with conductors in a lead sheath, or lead-sheathed armoured cable may be used."

Where the wires may be separated from the combustible insulation by six inches of non-combustible insulation (rock wool, etc.) then the combustible insulation is permitted. Obviously wiring already placed in wall spaces could not be easily covered by non-combustible insulation, and therefore the use of shavings or other combustible insulation in walls containing wiring is not safe.

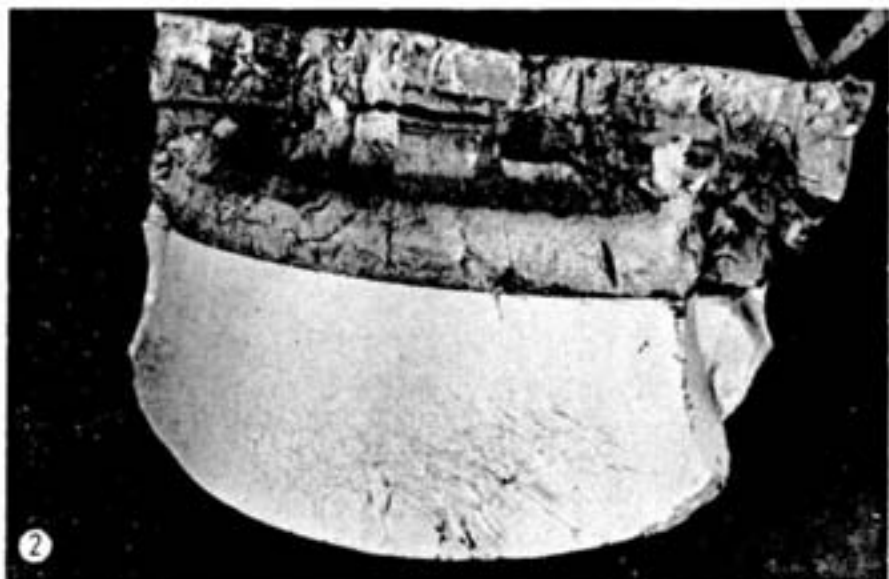
Orford Process Was a Chance Discovery

In all the romantic history of the nickel industry few developments stand out with such startling clarity as the chance discovery of the method for separating copper and nickel which is used in daily operations in the Orford Department of Copper Cliff Smelter.

Colonel R. M. Thompson was a U. S. Naval Academy graduate with an honorary military title conferred by the State of New Jersey. After a few years at sea he had resigned from the navy to study law at Harvard and then had started to practice in Boston. Soon he had forgotten law and was on the road to becoming one of the great industrial metallurgists of the New World.

The Orford Nickel Company, which had been organized to exploit a small and ultimately unsatisfactory nickel prospect near the village of Orford, Quebec, retained Colonel Thompson to handle negotiations for the leasing of a copper sulphide property at Capleton. When Thompson went to England to treat with the owners of the mine he decided it would be more profitable to purchase instead of lease. This he decided to do, much to the surprise of the directors of the Orford Nickel Company, who, however, approved the purchase and re-organized the Orford Copper and Nickel Company with Thompson as general manager.

In due course it was decided to erect a smelter near New York. Thompson went there, bought four acres of sunken meadow, prevailed upon New York officials to dump their ashes and rubbish there instead of at sea, and thus developed at low cost a tide-water site for his smelter. Before long copper ores from the western mines appeared at the seaboard for refining. Business was good and Thompson bor-



rowed capital to buy out his associates and reorganize as the Orford Copper Company. Thus nickel was completely eliminated from the corporate title; yet almost immediately the company launched on a development that was to make it one of the world's greatest producers of nickel.

What happened was that Thompson had contracted to buy 100,000 tons of copper ore from Samuel J. Ritchie, the Ohio industrialist who in 1885 had organized the Canadian Copper Company at Copper Cliff, Ontario, and had purchased several of the most promising mines in the Sudbury district.

The first shipment of ore was received at the Orford Smelter from Northern Ontario

(Continued on Page 11)

The Pictures

In the accompanying photos the Triangle camera takes its readers to the stripping floor of the Orford Department where a husky crew of INCO workers reap the benefits of Colonel Thompson's discovery.

1—Dumping the Big Pots

After treatment in the furnaces the copper-nickel sulphides are poured into huge cast iron pots and left to cool. Then the cranes pick up the pots and swing them over to the stripping floor where they are dumped. Nick Butchan, chairman, is signalling to the crane operator to dump a pot. Empty, each pot weighs about five tons; when loaded the gross weight is 12 tons.

2—A "Thompson Layer Cake"

Here's a closeup shot of part of the "layer cake" which comes out of a pot. Colonel Thompson's separation method has done its work well and the division between the gleaming nickel bottoms and the dark flaky copper tops is clearly seen.

3—Two Strippers in Action

Joe Kolibas and Paul Marychuk, strippers, are busy separating copper tops and nickel bottoms. Although special furnace treatment induces easier breaking when the pot is dumped, much stripping remains to be done by the men, many of whom are veterans in INCO service.

1—Off to the Jaw Crusher

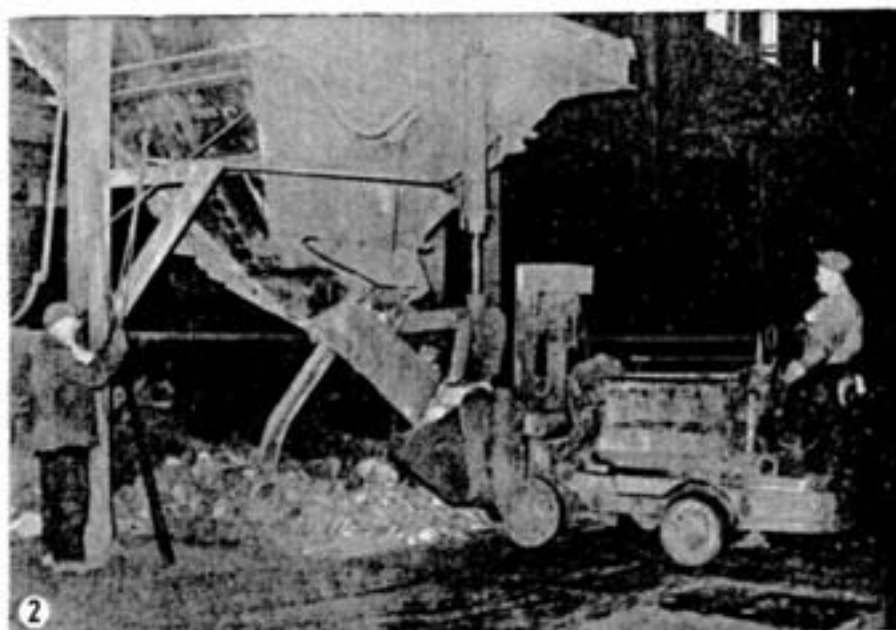
Stripped copper tops are pushed through grizzlies in the floor by Baker trucks, drop into boxes and are hauled back to the furnaces for further treatment. The nickel bottoms, however, are ready for shipment to the Nickel Refinery at Port Colborne. They are chained into pots and are then taken by the cranes to the jaw crushers where the big chunks are broken. In the picture "Blackie" Joachim, chairman, is sending away a 2½-ton chunk of nickel bottoms.

2—Loading For Shipment

From the jaw crushers the nickel bottoms are transported to the big hoppers from which the versatile little Baker trucks receive them and load them into box cars. The bucket of the Baker truck handles about a ton of bottoms each trip. Truck operator in the photo is Henry Denis and operator of the gate in the hopper is "Chano" Christiansa. As they leave the stripping floor for Port Colborne Refinery the bottoms are about 72% pure nickel.

3—Wilson Shift at Lunch

Jack Wilson's crew was on shift the day Triangle happened in to the Orford Department for these pictures. Photo shows the boys digging into the lunch boxes in their lunch room: front row, left to right, Phillip Gouin, Pete Lapushinski, Jimmy Jones, Jimmy O'Riorden, Johnny Bereik, Alex Stefuta; second row, Joe Kolibas, Nick Burchan, "Blackie" Joachim, Paul Plante, Alf Dempsey; third row, Paul Marychuk, Alex Nechat, John Drumister, Henry Denis, "Chano" Christiansa. Peeking through the window at the back is Tony Leone of Billy Chapman's lining stand gang.



Pete Denniel Wins First \$1000 Suggestion Award



ERNIE TWEEDLE ALSO COLLECTS A BIG JACKPOT

Jolly old St. Nicholas will have to dig deep into his sack of surprises to bring out anything which can hold a candle to the Christmas boxes received this month by two Frood-Stobie Open Pit men through the INCO Employees Suggestion Plan.

Pierre (Pete) Denniel realized the dream of thousands of his fellow workers when he was granted the first maximum award of \$1000 for his suggestion on reinforcing bulldozer rollers.

Ernie Tweedle also clicked for a rich jackpot when he received \$523 for his suggestion on welding wear shoes to electric shovel dippers.

The awards are the largest yet paid under the Suggestion Plan in the Mining, Smelting, and Copper Refining Divisions of INCO, and to Denniel and Tweedle go the hearty congratulations and good wishes of everyone.

Pete Denniel, a rangy Westerner whose habitually cheerful grin was broader and more cheerful than ever after receiving the exciting news of his \$1000 windfall, was born in France and came to Canada with his parents in 1910 to settle on a homestead at Val Marie, Saskatchewan. In 1921 he started farming on his own but after 10 years he moved to the Shaunavon district where he became a farm machinery doctor, curing the ills of sick combines, tractors, Caterpillars, etc. In 1936 he took a job as Caterpillar expert on the big P.F.R.A. irrigation project at Val Marie, where he had some 40 "Cats" under his care and got to know their every whim and mood. It was this experience which led to his becoming a leader in the bulldozer department at Frood Pit, where he has been employed since September of 1941. His wife and two children reside at Val Marie; his son Paul is 15 and his daughter Louise is 13.

Like so many of the ideas which click for substantial awards under the Suggestion Plan, Pete's "thousand dollar baby" looks simple when you see it, and you wonder "Now why in heck didn't somebody think of that before?" But nobody did until Pete hit upon it, and because it greatly increases the life of the track chains and rollers on the hard-working Open Pit bulldozers, it was a big winner.

Originally the bulldozer rollers were made like the one on the left in the picture (No. 1



in the layout) with two sets of flanges to keep the track chains in place. When the flanges wore down, as on the second of the three rollers, the track chain often slipped down between them, and consequent wear and tear was excessive. Pete welded a shroud between the centre flanges and the trouble was cur in half. He is seen with his hand on one of the improved rollers.

The other major award winner this month, Ernie Tweedle, thinks \$523 is a very pleasant surprise indeed, particularly at this season of the year and more particularly when a fellow was married only three months ago and can readily use a financial boost like that.

A Sudbury boy whose father is a railway engineer, Ernie started with INCO in 1935 in the boiler shop at Copper Cliff, and transferred to the plate shop at Frood Pit in 1938. He set sail on the matrimonial sea last September and his bride was formerly Miss Ies Busby, well-known Sudbury girl.

In the accompanying picture (No. 2) Ernie stands beside one of the 4½-yard electric shovel dippers which scoop up the rock and ore in the Open Pit. The dipper, incidentally, weighs 11 tons, and tips the scales at a mere 17 tons when loaded. Marked with white chalk so they'll show up in the photo are the wear shoes which Ernie suggested should be made from discarded dipper teeth and welded to the heel band of the dipper to help withstand the severe wear to which this section is subjected in Pit operations.

The two record awards swell to \$15,772, the total which has been paid out in Victory Bonds and War Savings Certificates to INCO employees for suggestions on how to increase production, improve operations, effect labor or material savings. Organized to reward an employee for interest in his work "beyond the call of duty," the Suggestion Plan to date has drawn more than 6521 ideas, 1136 of which have qualified for awards ranging from \$5.00 to \$1,000.

A few of the other INCOites who have also cashed in recently on the Suggestion Plan are pictured in the accompanying layout:

1—AT CREIGHTON

Andy Nesbitt, rigger, and George Carley, rope inspector, Creighton Mine, got a \$10 War Savings Certificate each for suggesting that a jack be used to assist in changing skip shoes.

4—AT CONISTON

Phil Leclair, Coniston, got a \$10 War Savings Certificate for suggesting larger prongs on the chipping anchors in the converter building.

5—AT COPPER CLIFF

Gerald Brou, Copper Cliff Machine Shop, was awarded a \$50 Victory Bond for suggesting that standard gauge car wheels be purchased with two holes drilled in each web to facilitate handling when the tires are being turned down in the lathe.

6—AT MURRAY

Jim Kilby, Murray Mine, drew \$25 in War Savings Certificates for his idea of installing unit heaters to heat the collathouse and prevent icing in the upper part of the shaft.

7—AT LEVACK

Sam Williams, Levack Mine, collected a \$5 War Savings Certificate for a suggestion which led to the installation of a turntable in the carpenter shop leading to the double framer.

8—AT FROOD

John Bahry, Frood Mine, received a \$10.00 War Savings Certificate for his suggestion of lowering the gauge pin on the bit millers in the steel shop.

MORE ABOUT

Your Pay-Check

(Continued From Page 3)

the check from one of the 10 Company paymasters, either at one of the plant offices or at the bank, whichever is more convenient for him according to where he lives and what shift



So little is this pint of blood to give.
That, far away, a dying man might live:
Take this, my blood, and know a part of me
Has gone . . . to keep my homeland free.

... Doris Lyon Stinson



*Is This YOUR Chair
 at the
 Blood Donors' Clinic?*



Another "must" in the Kirk budget, as in thousands of other INCOite budgets, is War Savings. Harold has been a bond buyer in every Loan to date, looks upon his little bundle of securities as a wonderful investment for the future just as much as a patriotic necessity of the present. Twice a year the Paymaster issues the Victory Bonds on which payments have been completed by employees under the Payroll Plan. During this war to date the INCO family has bought a total of almost \$7,000,000 in Victory Bonds like the crisp ones laid out in Photo No. 3. Another form of regular investment by which the Paymaster aids employees to build up a cushion for the future are War Savings Certificates; they're currently being issued at the rate of 4,000 a month, and to date INCOites have bought more than \$3,200,000 worth of them.

Despite rationing, despite temporary shortages, despite other little privations of war, INCO families live well. Shopping is a pleasure in the modern stores of the district and heavily-laden market baskets (No. 4) augur plenty of the good things a man needs to eat when he's doing a full day's work in the mining, smelting, and refining industry.

And that's the why, where, how, and what-for of your last week's pay-check. All that remains now is to wait for the next one.

he is working. In Sudbury and surrounding INCO towns there are nine branches of the banks on which INCO cheques are drawn, and this service is supplemented by the other banks in Sudbury.

"And what else?" Making out the weekly budget in their home on Raphael St., (Picture No. 2) Harold and his wife think carefully over their commitments. There's the household allowance, of course. And there's something for gas to keep Harold's car, with its "riders" from the neighborhood, travelling back and forth to the plant. Then there's the payment on the house; the Kirks formerly rented on Devon Road in the Minnow Lake section but now they're buying a place of their own. And don't forget the new Christmas doll for young Lorraine, aged 16 months. And so it goes.



AT COPPER REFINERY'S
**MECHANICAL
DEPARTMENT
BANQUET**

Approximately 100 members and guests attended the annual banquet of the Copper Refinery Mechanical Department at the Nickel Range Hotel on November 25, enjoyed the dinner and the varied program of entertainment, and voted the affair one of the best in the eight years since its inception.

Honored guests were 1st Class Stoker A. Lalonde, home on 21 days' leave from the Navy, and Flt. Lieut. Neville Spence of the R. C.A.F., also home on leave. Other former members of the Mechanical Department welcomed at the party included George Black, now with the Mines Mechanical Department at Froid; Walter Scott, now with the Electrical Department at Copper Cliff; Romeo Desilets, now Mines Mechanical; Jimmy Bell, now with Canadian Pacific Air Lines; Dave Duncan Jr., now in the Mechanical Department at Copper Cliff; Red Hodgins of Falconbridge.

Receiving their diplomas as graduate apprentices of the Machine Shop were Percy La Roque Jr. and Norman Ray, both of whose fathers are members of the Mechanical Department.

Follow the picture layout on the opposite page for some glimpses of the doin's as the gang relaxed together for the evening:

1. At the head table, left to right, are seen Fred Ness, Supt. R. H. Waddington, Wes Hart (chairman), Al Wellbund, Flt. Lieut. Neville Spence, (was Research Engineer at the Refinery before he enlisted, is now stationed at Ottawa); Joe Bischoff, Len Kitchener.

2. The Shops String Quartet made a big hit with its melodious contributions to the program. This group was originally billed as a quintet but five minutes before the program started Paul Dow broke a string on his gee-tar and had to withdraw. The boys had practised for two months, played well together. Professor Matt Bell, standing, is drawing sweet notes from his Stradivarius; seated are George Renaud, Barney Graham, and Coney Alexiuk. The piano accompaniments were played by Edward Reed, dean of Sudbury musicians.

3. A group at one of the banquet tables. Left to right they are: Walter Scott, former Refinery electrician; Harry Clemens, Albert Madison, Tom Bell, and Jimmy Bell, who left Refinery 10 years ago and now flies C. P. Air Lines planes in Northern Quebec.

4. Scene during the quiz contest, which was a highlight of the program. The three Quiz Kids standing on the left are Mike Shamley, Wilf Rivers, and Aime Chartier; in the trio on the right are Ron Heale, George Black, and Fred Perrier. Standing in the centre is Dave Duncan, who fired the riddles at the two teams of brain-trusters. Appropriate prizes were awarded according to a box score kept by Morgan Showeller (back to camera at the long table, writing furiously).

5. Another group at dinner; clockwise, starting in left corner, Maurice Keaney; Stoker Al Lalonde, son of Johnny Lalonde of the drill room, a former Refinery apprentice who is now on convoy duty in the Atlantic; Johnny Netzke, Percy La Roque, Ad Rabellato, Aime Lepage, Lucien Levesque, Stan Mitchell, Hughie McPhail, Lloyd Young, Ron Ray, and Harry Tolonen.

6. Here's the hard-working committee which won congratulations all around for making the event a success: left to right, Barney Graham, manager; Dave Duncan, treasurer; Wes Hart, banquets chairman; Frank Scott, who collaborated with Matt Bell in arranging the program; Leo Desilets and George Renaud, refreshments; Matt Bell; Kelly Stormes and Sol Hunter, refreshments.

7. A lot of grub disappeared in this corner:

clockwise, George Renaud, Cec Matthews, Alex Crossacrov, Frank Scott, Alex Kerr, Whit Wharton, Barney Graham, Russ Hewgill.

8. In this group, with a waitress hovering expectantly nearby, are Leo Beaudry, welcomed back to the plant only a few days previously after a long illness; Bill Johns and Ernie Shannon.

9. Archie Canapina, gifted young Refinery violinist, drew rousing applause for his selections; his accompanist was that accomplished pianist, Vic Chastaine.

And that's all the pictures we have. If anything else happened during the evening, the camera missed it, somehow.

HERE'S A LOOPHOLE, FELLAS!

A law against obtaining husbands under false pretences which was passed by the English Parliament in 1770 enacts:

"That all women of whatever age, rank, profession or degree, who shall, after this act, impose upon, or seduce and betray into matrimony any of His Majesty's male subjects, by virtue of scents, paints, cosmetic washes, artificial teeth, false hair, Spanish wool, iron stays, bolstered hips or high-heeled shoes, shall incur the penalty of the law now in force against witchcraft and like misdemeanors; and the marriage under such circumstances shall be null and void."

MORE ABOUT

Orford Process

(Continued from Page 7)

in 1886 but the smelt produced a pale metal that no copper fabricator would accept. Thompson had an exhaustive analysis of the ore made and he was advised that it contained 21 per cent nickel, that persistent metal which had bedevilled the efforts of copper miners in old Saxony in the 18th century that they had christened it after "Old Nick."

Ritchie was greatly depressed with the prospects for his Sudbury District mines until he learned that nickel was then worth \$1 a pound. Realizing that his ores would produce many times the world's annual consumption of nickel Ritchie was soon drumming up new uses for the metal. In the meantime it remained for Thompson to develop some more satisfactory method of separating nickel and copper than the slow and laborious "wet" method then in use. Without a better method his smelter would never be able to produce nickel in sufficient quantities to keep pace with the irrepressible Ritchie's vigorous sales campaign.

One day Colonel Thompson was in the refinery when some hundred pots of smelted copper matte had been dumped on the floor. He tapped one of these cones with a sledge hammer and noticed an unusual fracture. He then tapped cone after cone until he had gone through the whole lot. A score of them had fractured in the same way—the bottom third of the cone had broken away as a bright sulphide from the top two-thirds, which showed dark and flaky. Samples were then taken and proved that an almost pure nickel sulphide had settled in the bottom third while the top section contained copper, iron, some nickel, and a large amount of sodium.

Thereupon Thompson began to function. Upon inquiry he learned that various residues from the chemical house had been part of the charge that had produced this unusual matte. He detailed a man to melt normal matte in crucibles, each with one of the chemicals used in the plant. One heating after another produced negative results, then at last came a heat which gave a product similar to that which had inspired the experiments. The chemical in that crucible had been nitre cake, a by-product of nitric acid manufacture. Thompson bought a carload, tried it in his furnace and got the expected result. And thus was born the Orford Process of nickel separation which is in use at Copper Cliff Smelter.

*The Trophy that
Froid, Creighton
are Shooting at*



Although it will be late next spring before the records for all Canada have been gathered and the 1944 winner is announced, based on experience to date this year both Froid and Creighton Mines will be well up in the running for the Ryan Trophy, awarded annually to the mine with the best safety record.

Should either Creighton or Froid win this coveted award, it would be the first time in the history of the competition that a big mine did so.

The John T. Ryan Trophy, pictured above, was presented for Dominion-wide competition in 1941 through the Canadian Institute of Mining and Metallurgy by the Mines Safety Appliances Company in honor of its late president. One award is made for coal mines and another for metal mines.

As a basis of the award, the best mine safety record is taken as the lowest frequency of compensation accidents (more than six days' duration) per thousand men employed throughout the year at the mine, 300 man-shifts being considered equivalent to one man-year of employment. Smelter and open-pit operations are excluded from the competition.

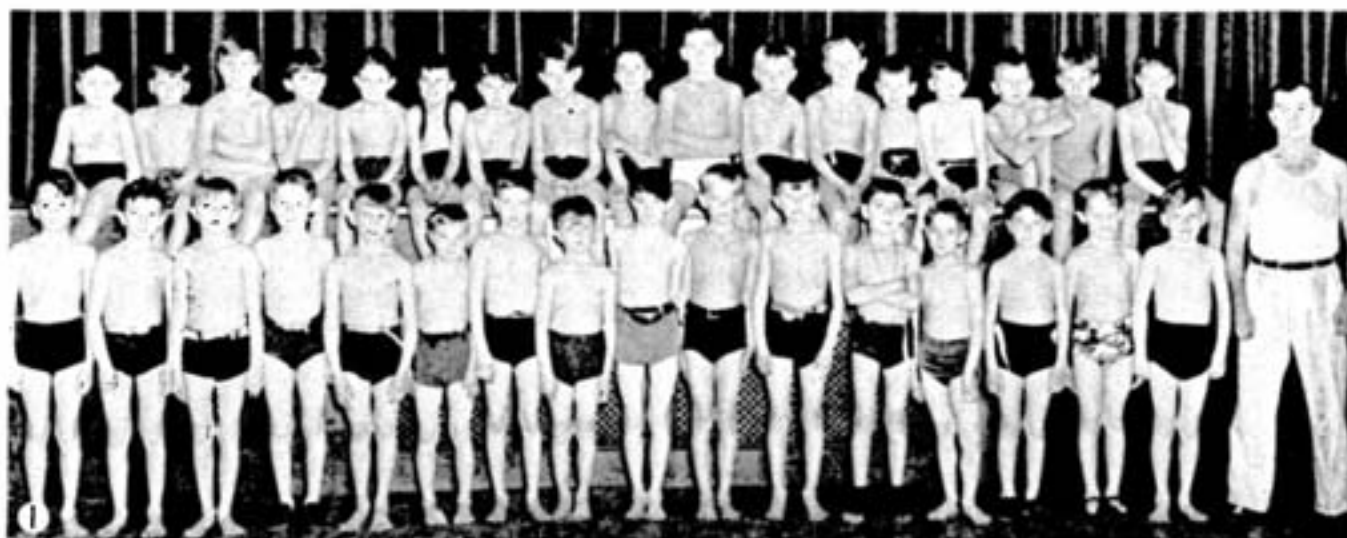
A plaster replica is given to the mine when the trophy is removed for award to a new winner.

In 1941, the first year of competition, Creighton Mine finished second for all Canadian metal mines in the Ryan Trophy race; in 1942 Froid Mine was third; in 1943 Levack Mine was third.

Both Froid and Creighton have every reason to be proud of the splendid safety records which have made them leading contenders in the Ryan contest this year.

ANDY SPY WRITES

Scottish-tongued Andy Spy, who used to work in the time office at Froid and bewilder the boys with his fancy finesses in the old inter-plant bridge contests, sends us a handsome Christmas card with a picture of his unit over-tas. Andy is a major in charge of the outfit. Says he sometimes sees Major Joe Cawthorpe (Stores, Copper Refinery) and they indulge in the odd bit of elbow exercise together. Sends his best regards to Frank Learned, George Thorpe, and all the gang at Froid.



'P.T.' CLASSES BIG FEATURE AT CREIGHTON

There's scarcely an hour of the day or evening that something isn't going on at Creighton Mine Employees Club, but it takes the boys' and girls' gymnasium classes to really make the rafters ring and the floor joists quiver.

Every Wednesday is kids' night at the Club, with more than 150 youngsters taking part. Prior to each class—there's one for the boys and one for the girls—the pupils get the run of the auditorium for an all-out romp during which they let off surplus steam. Then they settle down for a period of physical training with their popular instructor, Barney Barnicoat, in charge.

The gymnasium classes get a high priority as far as directors of the Club are concerned. The activity is regarded as one of the most worthwhile on the Club calendar. And it rates a high priority also among parents, who are glad to see their bairns reaping the health-building benefits of organized gymnastic work. As for the kids themselves—they love it, as regular attendances demonstrate.

The Employees Club is particularly well equipped for physical training. Besides the big auditorium where the classes are held there's the downstairs gym with its training bicycles, walking machines, dumbbells, barbells, punching bag, boxing gloves, wrestling mat, etc.

Group pictures on this page show some of

the young gymnasts with their instructor.

In No. 1 is a tribe of embryo Tarzans, left to right, back row: Ernie Lokun, Raymond Jones, Lloyd McChesin, Bob Moro, Donnie Johnson, Clifford Cardinal, Arthur Chevier, Tom Behenna, Lawrence Cardinal, Giles Rivet, John Kaychuk, Paul Kuzma, Tom Earl, Bob Tuddenham, Arni Kotonen, Melvin Latvala, Jim Pentney; front row, Ronnie Hall, Billie Barnicot, Bobbie Swaright, Lawrence Carriere, Walter Softich, Paul Chevier, Clifford Emblen, Victor Hreljac, Fred Santala, Frank Hreljac, Lawrence Gonnella, Gino Fievola, Michael McAster, John Secen, John McDonald.

Some of the members of the girls' class are photographed in No. 2, left to right, back row: Lorraine Michalehan, Erica Damiani, Alice Bellas, Annie Zyma, Ellen Riusta, Emelia Palya, Poldi Glsbe, Jessie Starkey, Irene Macko, Norma Gonnella, Stella Kozak, Joan White, Betty Rivet, Muriel Lamarche, Teresa Cayen, Frances Tremblay; front row, Sheila Farrell, Catherine Farrell, Jacqueline Galipeau, Annie Rintala, Lyda Cryderman, Sherill McGowan, Mary Hreljac, Mary Grivic, Shirley Ribic, Orlando Cuomo, Argia Cuomo, Helen Moyle, Emily McCormick, Roberta McCormick, Anne McIsaac.

Photo No. 3 finds the Professor showing the way to a group of the girls: left to right, front row, Joan White, Norma Gonnella, Philomena Cuomo, Dora Kolybaba; back row, Stella Kozak, Glenys Thomas, Jessie Starkey.

In the fourth picture Instructor Barnicot watches half a dozen of his charges go through their paces: left to right, front row, Tom Behenna, Giles Rivet, John Kaychuk; back row, Archie Damiani, Alfred Kotonen, Buddy Johnston.

Spark-plug of this valuable community project, Barney Barnicot, is a peppery little Cornishman who looks and acts about half of his 48 years. He comes naturally by his intense interest in physical training because his grandfather was an aerial acrobat in an Old Country circus troupe and his father was a professional boxer.

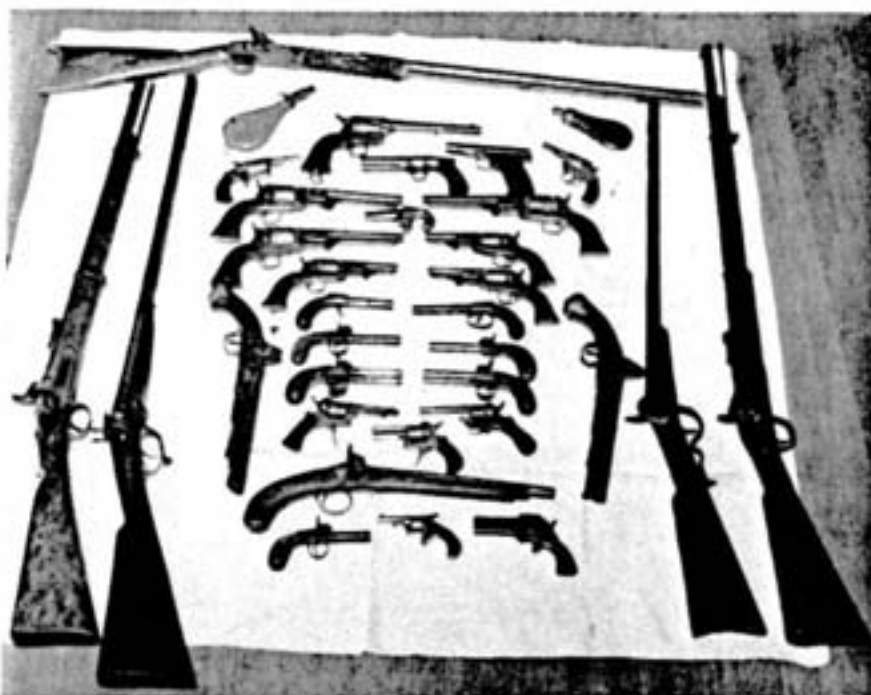
Early embarked on a fistic career, Barney fought his first pro scrap at the age of 12 at Truro, in Cornwall. He soon walloped his way to the top of the heap and at different times held the flyweight and bantamweight championships of Cornwall. During his service with the Duke of Cornwall's Light Infantry in the First Great War he traded leather with top-flight fighters in England, France, India and Egypt, and estimates he was billed in a total of more than 200 pro battles in his day.

Shortly after he came to Canada in 1920 Barney went into the ring against the great Frenchy Belanger, who was flyweight champion of the world. They fought twice, once to a draw at Hamilton and the second time to a technical K. O. for Belanger at Toronto when Barney had to quit on account of a badly cut eye. Barney's last fight before he hung up his gloves was an exhibition bout against Woolly Johnson in the Palace Rink at Sudbury 16 years ago.

Ever since he enrolled with INCO as Creighton in 1926 Barney has been a sports livewire in the camp, lending his expert assistance in training and conditioning hockey and baseball teams, instructing in boxing, and holding physical training classes. The children are his favorites, of course, but he also gives gymnastic instruction to about 125 grown-ups. This means he's at the Employees Club on an average of five evenings a week—a cheerful, enthusiastic volunteer who gladly donates his time to help other people keep healthy and happy. He's a good man, is Barney.

NICE CHRISTMAS BOX

Payday is always welcome but payday the week of December 11 was doubly welcome because the annual Christmas Bonus checks were issued to INCO people, just nicely timed to take up the slack in Yuletide gift problems.



GORD RUSTIN COLLECTS GUNS

If a fellow ever approaches you on a dark night, pokes a gun in your ribs, and tells you to put 'em up, and if after a quick glance you see that this fellow is Gordon Rustin of Frood Open Pit plate shop, our advice to you, brother, is to put 'em up. He knows his guns.

Not that Gord Rustin is in the habit of going around prodding people with pistols. Far from it. But after 18 years as a gun collector he can tell you the ancestry and shootin' habits of almost anything that wears a trigger.

Spread out for inspection in the top picture are some of the prizes of Gordon's registered collection. And on the right he poses with a pair of flintlock cavalry pistols which were used in the Battle of Waterloo. He picked them up in Toronto from a fellow who needed five bucks a lot worse than he needed a brace of cavalry pistols, and Gord has since been offered \$50 for them.

Among the most interesting items of the collection are a 41-calibre Colt Derringer, the vest pocket pistol which the wicked gamblers often carry in Oppenheim novels; a five-barrelled muzzle-loader, one of the first types of automatic revolvers; a wheel-lock single barreled percussion cap pistol; a pair of double-barrelled cap and ball pistols; three pin-fire revolvers, all six-shooters, with slots in the cylinder through which the pins on the cartridges project.

In the top corners of the layout are a shot bag and a powder horn, the latter with an adjustment for measuring quantities of powder up to two grams.

On the left is a cap-and-ball type military ruskett, which though of ancient vintage, can still knock off a groundhog at 50 paces. Beside it is a double-barrelled pin-fire 12-gauge shot gun, probably 100 years old. On the right are a 12-gauge centre fire shotgun with outside hammer, dated 1850, and an old Enfield gun which shoots the '57 Snider cartridge—a military job dated 1869. Across the top is a veteran Kentucky muzzle loader, better known as a "squirrel rifle". And near the bottom is one of the famous "hoss" pistols unusual chiefly for its size.

Gord Rustin, who hails from Stratford, can't remember where he got half the guns in his collection. "You just keep trading back and



forth with other guys who like guns," he says, "and after a few years you have quite a bunch of them. It's a hobby that grows on you like all other hobbies."

With INCO for more than three years, Gord was employed at Lawson Quarry before transferring to Open Pit. He was married at Stratford in 1919 to Florence Toms and their home is on Wembley Drive in Sudbury.

PARDON OUR BLUSHES—IF ANY

Waiting for the show to start in the Regal Theatre at the R.C.A.F. Station at Greenwood, N.S. one evening last month, Squadron Leader Ed McGill (Accounting Dept., Copper Cliff) noticed that the officer in the seat ahead of him was reading a copy of the INCO Triangle.

The two fliers introduced themselves and Ed's new-found friend turned out to be Flying Officer Tom Mulligan, who worked at Creighton Mine for three years before he enlisted, and whose dad is Tom Mulligan of the Creighton Time Office.

(Dale Carnegie please note: How to Win Friends and Influence People—Be seen reading the INCO Triangle).

OWO.O.O.O.

Wolf: A member of the male species who devotes the best years of his life to women.



THE FAMILY ALBUM

1 & 5—Old Timers Honored

Two widely known and well-liked Irishmen, each with many years of valuable INCO service to his credit, were honored by their fellow employees recently on the occasion of their retirement on Company pension.

Jimmy McMenamin is seen in No. 1 (right) receiving a purse of money from Assistant Superintendent Jack Lilley on behalf of the Aldege Blake shift in Coniston Smelter. In the centre is Nick Todd, who was chairman of the stag party given in Jimmy's honor in the Coniston Community Hall.

Although Jimmy originally enrolled at Victoria Mine away back in 1910, and later was a skimmer in the smelter at Coniston, there was an interval in his service during which he had a fling at farming. He returned to the plant in 1923 and for years has been a popular dry man, giving and taking repartee with the boys in his good-humoured Irish way.

Jimmy was born in Ireland 67 years ago, and was married at St. Charles to Miss Armelin Lefebvre in 1910. Of their nine children six are living: Mrs. Primo May and Mrs. Dick May of Copper Cliff, Mrs. Carmen Bray, Rose, and Patrick, of Coniston, and Pte. John, with the Canadian Army.

Cornelius (Con) Kirwan, familiar figure at Copper Cliff Concentrator where he worked for 12 years, was presented with a purse of money on behalf of the Morrison shift by K. S. Clarke (left in Photo No. 5) Assistant Superintendent at the mill, and Mrs. Kirwan (centre) received a lovely bouquet of flowers. Standing at the right is George Connors, who arranged the presentation.

Born in Renfrew County in 1876, Con Kirwan's first job was in a lumber camp; eventually he switched to farming and for 15 years tilled his land near Ville Marie, P. Q., where he was married 45 years ago last August. He moved to Haileybury where he worked in a saw mill, and then in 1920 came to Coniston and took a job in the old Mond Concentrator there. When it was dismantled he was transferred to Copper Cliff mill in 1931, first working on flotation and later as a conveyor operator.

Twelve children were born to Mr. and Mrs. Kirwan. One son was killed in a power company accident at Niagara Falls. A daughter, Sister St. Martin, is a nun at Lindsay, Ontario, and a son is in the priesthood at London. The other members of the family reside in or near Sudbury.

To both these old-timers as they enter retirement Triangle wishes good health and contentment. They will long be remembered by their fellow workers.

2—Either Round or Square

An Old Timers' Orchestra which specializes in both round and square dances and is making a big hit with the hep-cats of Sudbury and District, is this group of musicians, all but one of whom are INCOites employed at Copper Cliff. The orchestra will be a year old on New Year's, has been playing at least one engagement every week since its organization. In the front row are Johnny Leclair, Martin Daley of Canadian Industries, Aidge Vincent,

Joe Leclair, the leader, and his wife, Ganes, the pianist; behind them are Ray Belanger, who calls the square dances, and D. Martin.

3—Their Christmas Card

It has no gaily-colored holly festooned upon it, nor any traditionally happy Yuletide scene, but it's still the nicest Christmas card Mrs. Don Brown of Copper Cliff ever received in her life. Its message reads: "I have been taken prisoner of war in Germany. I am in good health," and it is signed by Flt. Lieut. Donald H. Brown, her husband.

Don Brown, formerly of the Concentrator office staff, was reported missing early in October after air operations over Germany. It was not until eight weeks later that his wife learned through the International Red Cross that he was safe, and a few days afterward she received the message directly from him, dated October 12. Don has more than 50 sorties to his credit, including eventful activities in the D-Day manoeuvres which brought him special mention in Canada Weekly. He is a wireless air gunner.

Happy smiles light the faces of Mrs. Brown and her pretty little daughter Virginia, aged four, as they discuss their favorite "Christmas card", and even young Don Jr., just a year old, wears a broad grin now that he knows his daddy is alive.

4—Bingo Packs 'em In

Invererate favorite of young and old, Bingo continues to draw capacity crowds at INCO Employees Club in Sudbury. Picture shows some of the players in a recent session, everybody concentrating hard as the numbers are called over the loud-speaker hook-up and flashed on the master board. More than 1,300 people turned out for the Bingo party at the Club on December 13, when 25 turkeys averaging from 12 to 15 lbs. apiece and several special \$25.00 cash awards, were part of the booty. Another Christmas Turkey Bingo was scheduled for December 20.

6—In Family Tradition

Bob McInnes of the Accounting Department at Copper Cliff comes from a well-known Sudbury sporting family, so he's expected to deliver the goods in any sports activity, including marksmanship. On November 15, while on a hunting trip in the Lang Lake district near Lawson Quarry, Bob spotted a big bull moose at a distance of about 125 yards, drew a careful bead with his 30-30 Winchester, and dropped his prize in its tracks. The animal weighed about 1,200 lbs. and was five years old according to the prongs on its horns. Out came a camera to record the historic moment for the admiration of McInnes generations yet unborn, and this was the picture made. Bob stands with his foot on the vanquished horns of the bushlands in approved conqueror fashion; on his left are an uncle and a cousin, Doug Horne of St. Catharines and George Biggs of Niagara Falls; on his right is another uncle, Emerson Biggs of Niagara Falls. The Sudbury branch of the family came out on the long end of the score—Bob's moose was the only game bagged on the trip.

7—24 Teams in League

At the Copper Cliff Club the mixed bowling league is in the throes of playdowns in its annual Christmas tournament. The loop is divided into three groups; winning team in each group will enter the finals with plump Christmas turkeys as first prize and chickens for the runners-up. In addition the runners-up in each group will receive cash prizes. Picture shows the two teams which reached the finals in group 2, skippered by Gordon Harry and Sam Nute. About to spill the maples for strikes are Kay Jennings and Mary Kennedy; seated in the front row are Rena Tatham and Mr. and Mrs. Gordon Harry; in the back row are Walter Johnston, Sam Nute, and Howard Thomson.

Captains of the 24 teams in the flourishing league are G. Hazleden, C. Beach, A. McEwan, C. Stemp, C. Coe, E. Southcott, L. Montgomery, D. W. Finlayson, D. Finlayson, T. Crowther, G. Harry, G. Montgomery, B. Ross, C. Nute, W. deSoto, V. Johnston, E. Lambert, F. Bain, T. Bradbury, R. A. Elliott, R. Bell, A. Crossgrove, M. Malnarik, and A. Godfrey.

8—Trio of Levack Bowlers

The bowling alleys in Levack's busy Employees Club are kept going day and night. Here are three enthusiastic trundlers checking the score of a practice game: left to right, Marie Courchesne, who works in the rockhouse; Mrs. Eileen Fay, whose husband, Charlie Fay, is a compressor man; Gertrude Fay, another rockhouse worker.

FORGOT THE OVERHEAD

The colored preacher had just finished his sermon about free salvation and asked a brother to take up the collection. At this, a member of the congregation arose and protested: "Pah-ton, Ah thought you said salvation was free, free as the water we'uns drink."

"Salvation is free, Brother Brown," replied the parson. "It's free just like water is free, but we pipes it to you, and you have to pay for the piping."

GRADUATE OF OLD RENO

Two Hollywood kids were talking as they walked home from school. "I've got two little brothers and one little sister," boasted one. "How many do you have?"

"I don't have any brothers and sisters," answered the second lad, "but I have three papas by my first mama and four mamas by my last papa!"

KOGAKAMI CATCH



An even 100 lbs. of trout gladdened the hearts of these three fishermen during a two-day session with rod and reel at Kogakami Lake about two months ago. Picture shows some of the catch, biggest of which was a 21-pounder which took about 40 minutes to land. Left to right the fishermen are A. Leppinen of Gatchell, who works in Copper Cliff machine shop; A. Moustgaard, manager of Copper Cliff Dairy; E. Salo, Copper Cliff.

No Starvation of Hockey Fans

Measured by Open Pit's decisive victory over Hamilton Tigers in the opening exhibition tilt of the season December 9, and by the warm-up fixtures of the Copper Cliff Senior League schedule, Nickel Belt fans are certainly not doomed to any starvation hockey diet this winter.

It's as plain as a wen on a schnozzle that smiling Frankie Graham is building a high-class team to carry the proud Open Pit colors. Despite lack of conditioning his boys showed a definite edge over Hamilton in all departments of the game and were full value for their 7-4 victory. Now Frank is gunning for more matches to put a razor edge on his hockey machine; he hopes to bring Hamilton back for another tussle and also to stage exhibitions with St. Catharines, Staffords of Toronto, Hull Volants, and Toronto Army, to mention four of the clubs with which he is dickering. Unable to condition his lineup in regular league play, Frank figures he'll need at least six tough exhibitions to put the boys in shape for a playdown bid.

Special ceremony to mark the opening of the season found INCO President Robert C. Stanley, who was in Copper Cliff on a short business visit, facing the puck in the stadium which honors his name. Top photo in the layout records the occasion. The two scrappy centre-ice stars who are jockeying for first whack at the rubber disk are Mayor W. S. Beaton of Sudbury and Mayor E. A. Collins of Copper Cliff. Seen at the left are Jack viewstead, representing Sudbury Lions Club which sponsored the game and netted \$400 to send Christmas cheer to needy families. W. E. Mason, publisher of the Sudbury Daily Star; INCO Vice President R. L. Beattie.

The second picture catches one of the game's sparkling plays. Pit goalie Morris Gerth has made a great save on a powerful attempt by Bill Dinning (ex-Copper Cliff) and Johnny Conick (ex-Frood Tigers) of Hamilton. Pit defencemen Rolly McLennahan and Danny Linton swing to break up the attack as Conick races around the net to retrieve the puck. Early in the second frame Pit was two goals behind, but stepped up its pace and smothered Tigers convincingly.

But if Open Pit seems to cop the main spotlight in the 1945 hockey parade, don't sell Copper Cliff Senior League short on entertainment value. Boiled down to four well-balanced and potentially powerful lineups, on which appear several of the Pit players and also many a hero of yesteryear lured out of retirement to keep the hockey flag flying during the war, the Cliff adult loop is playing a brand of hockey that deserves a liberal slice of public recognition.

The four lineups, Coniston, Refinery, Varcos and Engineers, play a double-header each Monday night at Stanley Stadium. President of the league is Gordie Alcott, with Aubrey Wright as Vice President and Tony Demarco as Secretary. Each team also has a weekly practice session. Copper Cliff A.A. is sponsoring Engineers and Varcos; Coniston and Refinery A.A.'s back their respective teams.

Pictures show two of the Senior League teams (the other two will appear in a subsequent issue):

1. Coniston: left to right, back row, S. Paradis, coach; G. Laprasrie, manager; A. Barbe, captain; S. Soroko, V. Price, O. Halverson, R. Spencer, B. Akey, trainer; Hector Barbe, mascot; front row, A. Halverson, G. Baldisera, N. Farnel, A. Lemieux, A. Gobbo, G. Gobbo, M. Laforge, L. Oliver. (Absent, G. Duhaime.)

4. Engineers: back row, left to right, M. Smrke, T. Demarco, Nap Carriere, Jim Dewey, Pete Kalapoca, Bud Hashey, coach. Front row, A. Tomori, G. Heale, M. Kauppi, L. Germa, J. Flynn, E. Redl.

